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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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THIS IS UNEVALUATED INFORMATION

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1. Optik Carl Zeiss, Jena VEB

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- a. At a meeting held on 14 January, the recent raising of production targets was discussed and the figures, as distributed among the various product groups were given as follows:

<u>Product</u>	<u>From (1000 DM)</u>	<u>To (1000 DM)</u>
Vg (sic)	163	423
Fe (sic)	621	2,200
Fernr ¹	351	315
Pho ¹	1,800	3,700
Proki (sic)	807	2,200
Mikro ¹	1,600	3,000
Mess ¹	496	1,100
Med ¹	83	300
Opht ¹	506	774
ZD (sic)	279	151
Optol	1,000	1,600

- b. A letter from Minister Gerhard Ziller was read at this conference, in which the Minister sent his good wishes to the factory as it commenced the production of an electron microscope.
- c. Multilayers and "Kaltspiegel"; These were discussed in the form of a research report at a meeting held on 28 January. The report concerned some work which was being carried out by the thin film laboratory, (Schichten-labor). Colleague Schuster reported on the following:

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- 1) Ray dividing plates² (Strahlteilungsplatten) with a controlled ratio between transmitted and reflected light achieved by multilayers: Formerly only metal had been used as a coating material in such plates. Now, however, very good results were being obtained using nonmetallic substances, as a result of further development of the theory of thin layers.
- 2) "Kaltspiegel", another application whereby the reflection maximum could be chosen to fall in any desired wave length from blue to red.³
- 3) These layers for the ray dividing plates and "Kaltspiegel" had been produced by the sputtering (Aufsprüh) process.⁴ It was further reported that although the production of these controlled layers was perfectly successful in the laboratory, it was not to be regarded as being an industrial process as yet.

2. Mechanik Askania, Teltow

- a. At a meeting held on 26 January the outstanding production difficulties were stated to have occurred in the production of geophysical and "oscillatory" (Schwingungstechnisch) apparatus.
- b. There were production difficulties among the following:
 - 1) Compasses.
 - 2) Mechanical logs (There were no tachometers).
 - 3) Electric logs. (There were no cases).
 - 4) Clear view screens (The remaining four were held up because there were no screens).
 - 5) Shaking tables. (There were no motors).
 - 6) Balancing machines, types AM 50 & AM 500. (There were supply difficulties).
 - 7) Impact test gear (Schlagpruefstaende). (Production had recently commenced after a large reorganization).
 - 8) All ball bearings, which were in very short supply.

1. Comment: Possibly:

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Fernrohre (telescopes)
 Photographie (photography)
 Mikroskope (microscopes)
 Messinstrumente (measuring instruments)
 Medizinisch (medical)
 Ophthalmisch (ophthalmological)
 Optometrisch (optometric)

2. Comment: A ray dividing plate - apparently refers to a grey-scale filter to control the transmissions of a given hue more or less proportionately for all wave-lengths.
3. Comment: "Kaltspiegel" is rather a color filter which will selectively transmit certain wave lengths.
4. Comment: Such a sputtering process has been employed in the past with both metals (i.e., gold, etc.) and nonmetallics.

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